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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
B-K Lighting Inc
Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636-9515
United States

Catalog Number
LT-12-B-LED-E72-2-4000K

Order Number

12592344

Test Number

12592344.15A

Revised Date:

2019-03-21

Test Date

2019-01-28

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with cylindrical mounting base; dome reflector and plastic diffuse lens
Lamp: One (1) White LED
Lamp Catalog Number:
Mounting: VBD
Ballast/Driver: One (1) PowerSelect PS20U15K

Luminaire



Luminaire Characteristics

Luminous Diameter: 4.00 in.
Luminous Height: 0.250 in.

Summary of Results

Roadway Classification: Type I, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.05392 A
Power: 3.681 W
Power Factor: 0.569
Frequency: 60 Hz
Current THD: 144 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|-----------|---------|--------------|-----------|-------------|
| 24.9 °C | 120.0 VAC | 0.05392 A | 3.681 W | 0.569 | 60 Hz | 144 % |

Summary of Results

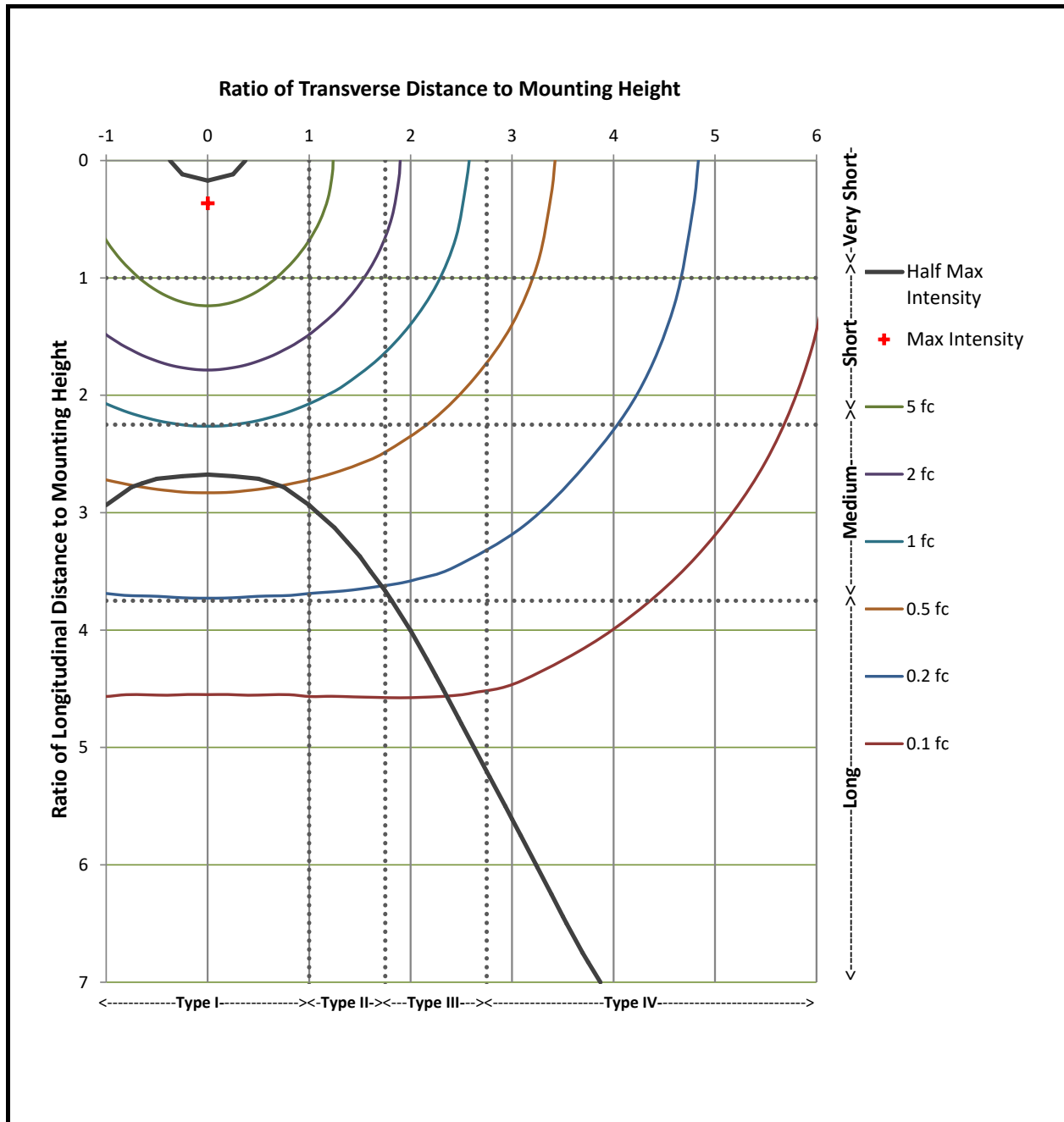
IES Roadway Classification:
Cutoff Classification
BUG Rating:

Type I, Very Short
Noncutoff
B0 U1 G0

Total Lumen Output:
Luminaire Efficacy:
Maximum Candela:

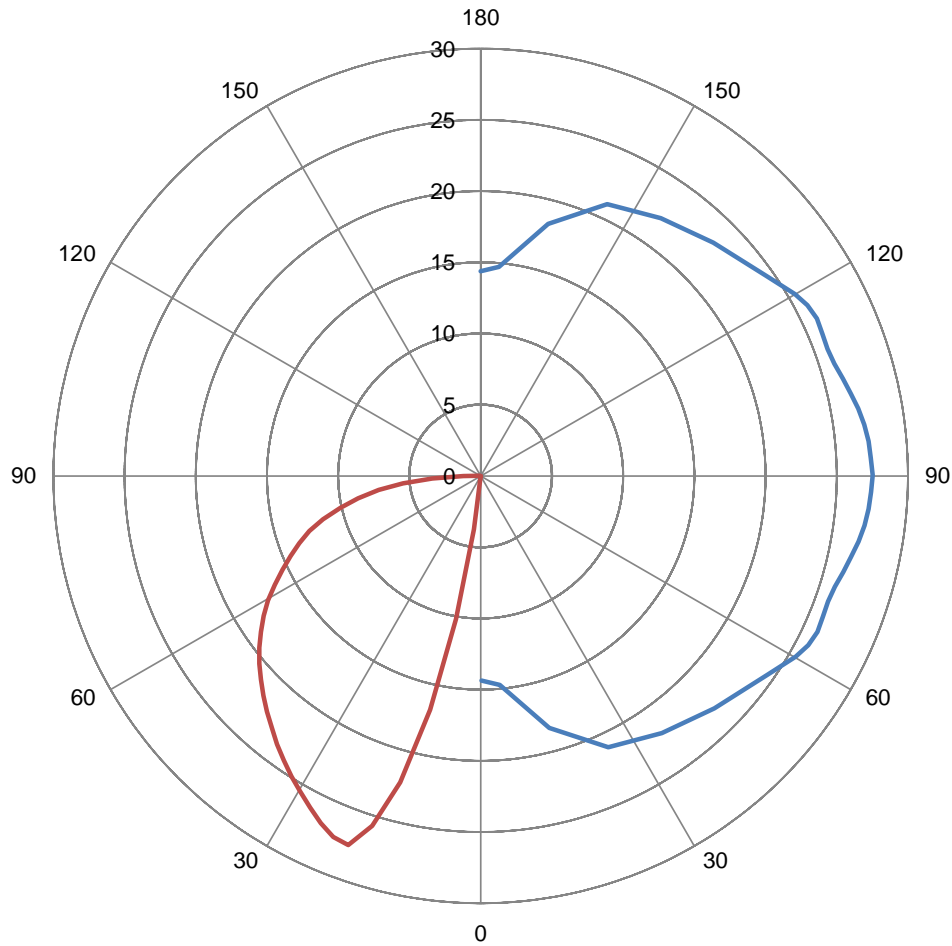
114 Lumens
30.9 lm/w
28 Candela

ISO FootCandle Plot at 1 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

90 ° Lateral

Lateral Cone Through

20 ° Vertical

Maximum Intensity (Candlepower):

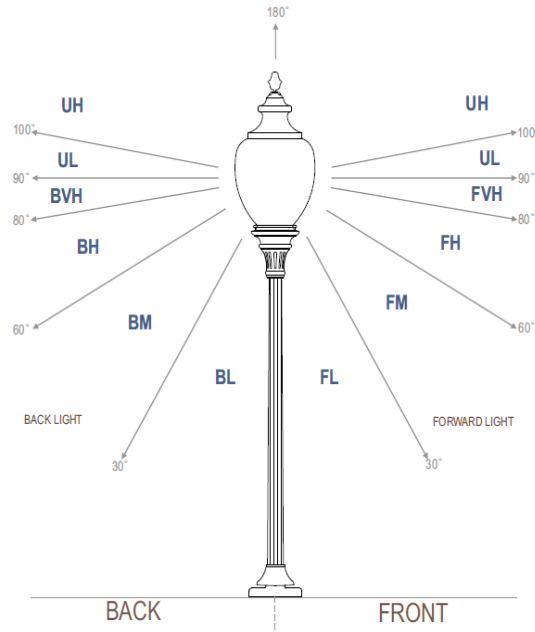
28 Candela

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire |
|-------|--------|----------------|---------|--------|----------------|---------|--------|----------------|
| 0-5 | 0.0 | 0.0% | 60-65 | 8.6 | 7.6% | 120-125 | 0.0 | 0.0% |
| 5-10 | 0.4 | 0.4% | 65-70 | 8.9 | 7.9% | 125-130 | 0.0 | 0.0% |
| 10-15 | 1.7 | 1.5% | 70-75 | 9.3 | 8.2% | 130-135 | 0.0 | 0.0% |
| 15-20 | 3.4 | 3.0% | 75-80 | 9.7 | 8.5% | 135-140 | 0.0 | 0.0% |
| 20-25 | 5.0 | 4.4% | 80-85 | 9.4 | 8.3% | 140-145 | 0.0 | 0.0% |
| 25-30 | 6.1 | 5.3% | 85-90 | 4.4 | 3.8% | 145-150 | 0.0 | 0.0% |
| 30-35 | 6.7 | 5.9% | 90-95 | 0.4 | 0.3% | 150-155 | 0.0 | 0.0% |
| 35-40 | 7.2 | 6.3% | 95-100 | 0.1 | 0.0% | 155-160 | 0.0 | 0.0% |
| 40-45 | 7.6 | 6.7% | 100-105 | 0.0 | 0.0% | 160-165 | 0.0 | 0.0% |
| 45-50 | 8.0 | 7.1% | 105-110 | 0.0 | 0.0% | 165-170 | 0.0 | 0.0% |
| 50-55 | 8.4 | 7.3% | 110-115 | 0.0 | 0.0% | 170-175 | 0.0 | 0.0% |
| 55-60 | 8.5 | 7.5% | 115-120 | 0.0 | 0.0% | 175-180 | 0.0 | 0.0% |



IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

| LCS | Zone | Lumens | Luminaire % |
|-------------------|-----------------|--------|-------------|
| FL | (0-30) | 8.3 | 7.3% |
| FM | (30-60) | 23.2 | 20.4% |
| FH | (60-80) | 18.3 | 16.1% |
| FVH | (80-90) | 6.9 | 6.1% |
| BL | (0-30) | 8.3 | 7.3% |
| BM | (30-60) | 23.2 | 20.4% |
| BH | (60-80) | 18.3 | 16.1% |
| BVH | (80-90) | 6.9 | 6.1% |
| UL | (90-100) | 0.4 | 0.4% |
| UH | (100-180) | 0.0 | 0.0% |
| Total | | 113.9 | 100.0% |
| BUG Rating | B0 U1 G0 | | |